DERWENT-ACC-NO: 1997-379982
DERWENT-WEEK: 199735

TITLE: Electric power generation for portable equipment - by deforming magnetostriction component fixed in heel of footwear through walking of user to generate induced electromotive force

PATENT-ASSIGNEE: BROTHER KOGYO KK[BRER]

PRIORITY-DATA: 1995JP-0319133 (December 7, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 09163771 A	June 20, 1997	N/A	009	H02N 002/00

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP09163771A	N/A	1995JP-0319133	December 7, 1995

INT-CL_(IPC): A43B003/00; H01L041/12 ; H02N002/00

ABSTRACTED-PUB-NO: JP09163771A

BASIC-ABSTRACT: The method involves generating a magnetic field through a coil (11). The generated magnetic field varies according to the deformation of a magnetostriction component (10) fixed in the heel (2) of a footwear (1).

The magnetostriction component is deformed through walking of a user. An induced electromotive force is generated by the variation of the magnetic field.

ADVANTAGE - Enables stable and continuous generation of electric power by using durable magnetostriction component. Prevents increase in size by using small magnetostriction component. Provides simple composition and reduces operation cost.

CHOSEN-DRAWING: Dwg.1/5

TITLE-TERMS:
ELECTRIC POWER GENERATE PORTABLE EQUIPMENT DEFORM MAGNETOSTRICTIVE COMPONENT
FIX HEEL FOOTWEAR THROUGH WALKING USER GENERATE INDUCE ELECTROMOTIVE FORCE

DERWENT-CLASS: P22 V06 X27

EPI-CODES: V06-M06H; X27-A02B1;

SECONDARY-ACC-NO:
Non-CPI Secondary Accession Numbers: N1997-316166

DERWENT-ACC-NO: 1989-272637
DERWENT-WEEK: 198938

TITLE: Superconducting electrical generator - has energy loss in oscillating
circuit compensated by electromagnetic induction for superconducting windings

INVENTOR: GUERIN, B

PATENT-ASSIGNEE: GUERIN B[GUERI]

PRIORITY-DATA: 1988FR-0001547 (February 3, 1988)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
FR 2626729 A	August 4, 1989	N/A	010	N/A

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
FR 2626729A	N/A	1988FR-0001547	February 3, 1988

INT-CL_(IPC): H02N002/00; H02N011/00

ABSTRACTED-PUB-NO: FR 2626729A
BASIC-ABSTRACT: Two piezo-electric, ferroelectric or magnetostrictive elements
are provided in an arrangement of resonant cavities with the aim of determining
the variable polarisation of these elements and thus a high intensity electric
current. The polarisation is determined by an ultrasonic wave method. The
exciting elements (1) are ultrasonic wave generators and the elements (2) are
resonators and they create an alternating current (3). The elements vibrate
under the effect of a voltage produced by an oscillating RLC circuit (8,9,1).
The energy dissipation in the oscillating circuit is compensated by
electromagnetic induction from a superconducting winding (10) forming a primary
winding and by ordinary auxiliary windings (11) forming the

secondary.

The superconducting windings take a compensation current from the main current
without Joule effect nor impedance, and therefore without energy alteration to
this current. This type of lossless sampling by a superconducting winding can
be done on any variable current and notably on the oscillating circuit itself.

ADVANTAGE - Does not require any other external energy.

CHOSEN-DRAWING: Dwg.2/3

TITLE-TERMS:
SUPERCONDUCTING ELECTRIC GENERATOR ENERGY LOSS OSCILLATING CIRCUIT COMPENSATE
ELECTROMAGNET INDUCTION SUPERCONDUCTING WIND

DERWENT-CLASS: X11

EPI-CODES: X11-H05;

SECONDARY-ACC-NO:
Non-CPI Secondary Accession Numbers: N1989-208236